

**Test Report**

NTS2509109R

Date: Sept.18, 2025

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**Applicant :** Tianchang Hongwei Instrument Co., Ltd  
**Address :** Guangming Village, Tongcheng Town, Tianchang City, Anhui Province  
**Manufacturer :** Tianchang Hongwei Instrument Co., Ltd  
**Address :** Guangming Village, Tongcheng Town, Tianchang City, Anhui Province

The following sample(s) was/were submitted and identified on behalf of the clients as :Temperature sensor  
Model No. :HW.WZPM-291  
Client Ref. Info.: N/A  
Trade mark: Anhui Hongwei

**Date of Sample Received :** Sept.13, 2025  
**Testing Period :** Sept.13, 2025- Sept.18, 2025  
**Test Requested :** Selected test(s) as requested by client.  
**Test Method :** Please refer to next page(s).  
**Test Results :** Please refer to next page(s).  
**Conclusion :** Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), DEHP, BBP, DBP, DIBP comply with the limits as set RoHS Directive 2011/65/EU and its amendment directive 2015/863/EU.

Signed for and on behalf of  
**Shenzhen NOWD Testing Services Co., Ltd.**

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Jeremy Xie  
Approved Signatory



### Restriction of Hazardous Substances Directive (RoHS), (EU) 2015/863 & 2011/65/EU

List of Analytes and their Corresponding Test Methods [ European Council Directive (EU) 2015/863 & 2011/65/EU ] :

Name of Analytes		Test Method(s)
<b>Pb</b>	Lead (Pb)	With reference to IEC 62321-3-1:2013; by ICP-OES.
<b>Cd</b>	Cadmium (Cd)	
<b>Hg</b>	Mercury (Hg)	With reference to IEC 62321-4:2013+ A1:2017; by ICP-OES.
<b>Cr<sup>6+</sup></b>	Chromium VI (Cr VI)	<u>Metal</u> : With reference to IEC 62321- 5:2013. <u>Polymers &amp; Electronics</u> : With reference to IEC 62321-7-1:2015; IEC 62321-7-2:2017. using UV-Vis.
<b>PBBs</b>	Polybrominated Biphenyls (Sum of PBBs)	With reference to IEC 62321-6:2015, by GC-MS.
	Bromobiphenyls	
	Dibromobiphenyls	
	Tribromobiphenyls	
	Tetrabromobiphenyls	
	Pentabromobiphenyls	
	Hexabromobiphenyls	
	Heptabromobiphenyls	
	Octabromobiphenyls	
	Nonabromobiphenyls	
	Decabromobiphenyl	
<b>PBDEs</b>	Polybrominated Diphenyl Ethers (Sum of PBDEs)	
	Bromodiphenyl ethers	
	Dibromodiphenyl ethers	
	Tribromodiphenyl ethers	
	Tetrabromodiphenyl ethers	
	Pentabromodiphenyl ethers	
	Hexabromodiphenyl ethers	
	Heptabromodiphenyl ethers	
	Octabromodiphenyl ethers	
	Nonabromodiphenyl ethers	
	Decabromodiphenyl ether	



List of Analytes and their Corresponding Test Methods [ European Council Directive (EU) 2015/863 & 2011/65/EU ] :

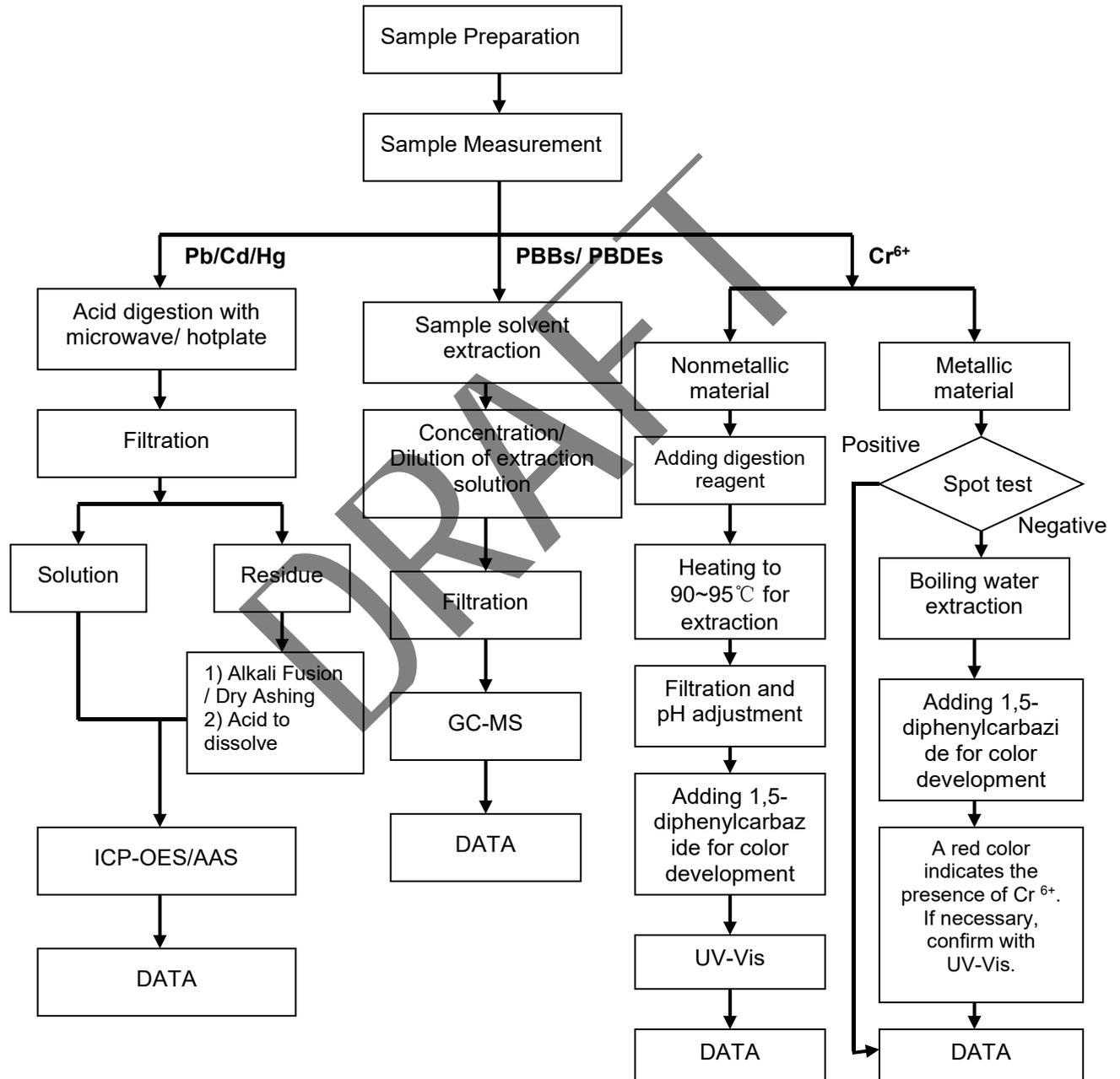
Name of Analytes		Test Method(s)
<b>Phthalate</b>	Bis-(2-ethylhexyl) Phthalate ( <b>DEHP</b> )	With reference to IEC 62321-8:2017. by GC-MS
	Benzylbutyl Phthalate ( <b>BBP</b> )	
	Dibutyl Phthalate ( <b>DBP</b> )	
	Diisobutyl phthalate ( <b>DIBP</b> )	

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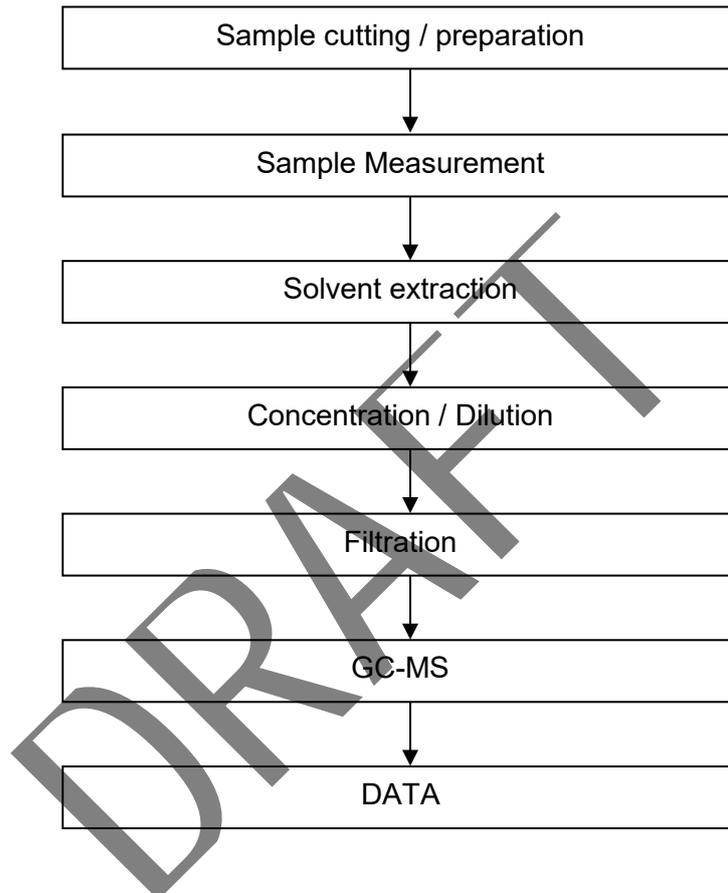
### RoHS Testing Flow Chart

- 1) Name of the person who made testing: Vito Ma
- 2) Name of the person in charge of testing: Sienna Cao
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ and PBBs/ PBDEs test method excluded).



Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Vito Ma
- 2) Name of the person in charge of testing: Sienna Cao



<u>Test project</u>	<u>unit</u>	<u>limit</u>	<u>MDL</u>
Cadmium (Cd)	mg/kg	1000	2
Lead (Pb)	mg/kg	1000	2
Mercury (Hg)	mg/kg	1000	2
Hexavalent Chromium (Cr(VI))	mg/kg	1000	2
Polybrominated biphenyls (PBBs)	mg/kg	1000	-
Bromobiphenyls	mg/kg	--	5
Dibromobiphenyls	mg/kg	--	5
Tribromobiphenyls	mg/kg	--	5
Tetrabromobiphenyls	mg/kg	--	5
Pentabromobiphenyls	mg/kg	--	5
Hexabromobiphenyls	mg/kg	--	5
Heptabromobiphenyls	mg/kg	--	5
Octabromobiphenyls	mg/kg	--	5
Nonabromobiphenyls	mg/kg	--	5
Decabromobiphenyl	mg/kg	--	5
<u>Test project</u>	<u>unit</u>	<u>limit</u>	<u>MDL</u>
Polybrominate ddiphenylethers (PBDEs)	mg/kg	1000	-
Bromodiphenyl ethers	mg/kg	--	5
Dibromodiphenyl ethers	mg/kg	--	5
Tribromodiphenyl ethers	mg/kg	--	5
Tetrabromodiphenyl ethers	mg/kg	--	5
Pentabromodiphenyl ethers	mg/kg	--	5
Hexabromodiphenyl ethers	mg/kg	--	5
Heptabromodiphenyl ethers	mg/kg	--	5
Octabromodiphenyl ethers	mg/kg	--	5
Nonabromodiphenyl ethers	mg/kg	--	5
Decabromodiphenyl ether	mg/kg	--	5
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	1000	-
Benzyl-n-butyl phthalate (BBP)	mg/kg	1000	-
Di-n-butyl phthalate (DBP)	mg/kg	1000	-
Di-iso-butyl phthalate (DIBP)	mg/kg	1000	-



### Test Result

Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
1	Black plastic (wire insulation)	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
DIBP	/	N.D.	P		
2	Translucent plastic (wire insulation)	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
DIBP	/	N.D.	P		
3	Silvery wire	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
DIBP	/	/	P		
4	Translucent plastic (wire insulation)	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
DIBP	/	N.D.	P		



Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
5	Translucent plastic (wire insulation)	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
DIBP	/	N.D.	P		
6	Silvery wire	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
DIBP	/	/	P		
7	Red wire	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
DIBP	/	/	P		
8	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
DIBP	/	/	P		



Part No.	Part Description	Restricted Substances	Results (mg/kg)		Conclusion (P/F)
			EDXRF	Chemical testing	
9	White plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P
10	Silvery metal	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	/	/	P
		PBDEs	/	/	P
		DEHP	/	/	P
		DBP	/	/	P
		BBP	/	/	P
		DIBP	/	/	P
11	Translucent soft plastic	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P
12	Translucent glue	Cd	BL	/	P
		Pb	BL	/	P
		Hg	BL	/	P
		Cr(VI)	BL	/	P
		PBBs	BL	/	P
		PBDEs	BL	/	P
		DEHP	/	N.D.	P
		DBP	/	N.D.	P
		BBP	/	N.D.	P
		DIBP	/	N.D.	P



-mg/kg = milligram per kilogram = ppm

-N.D. = Not detected (<MDL)

-BL=Less than screening limits of XRF

-D = DETECTED = Inconclusive

-P = PASS

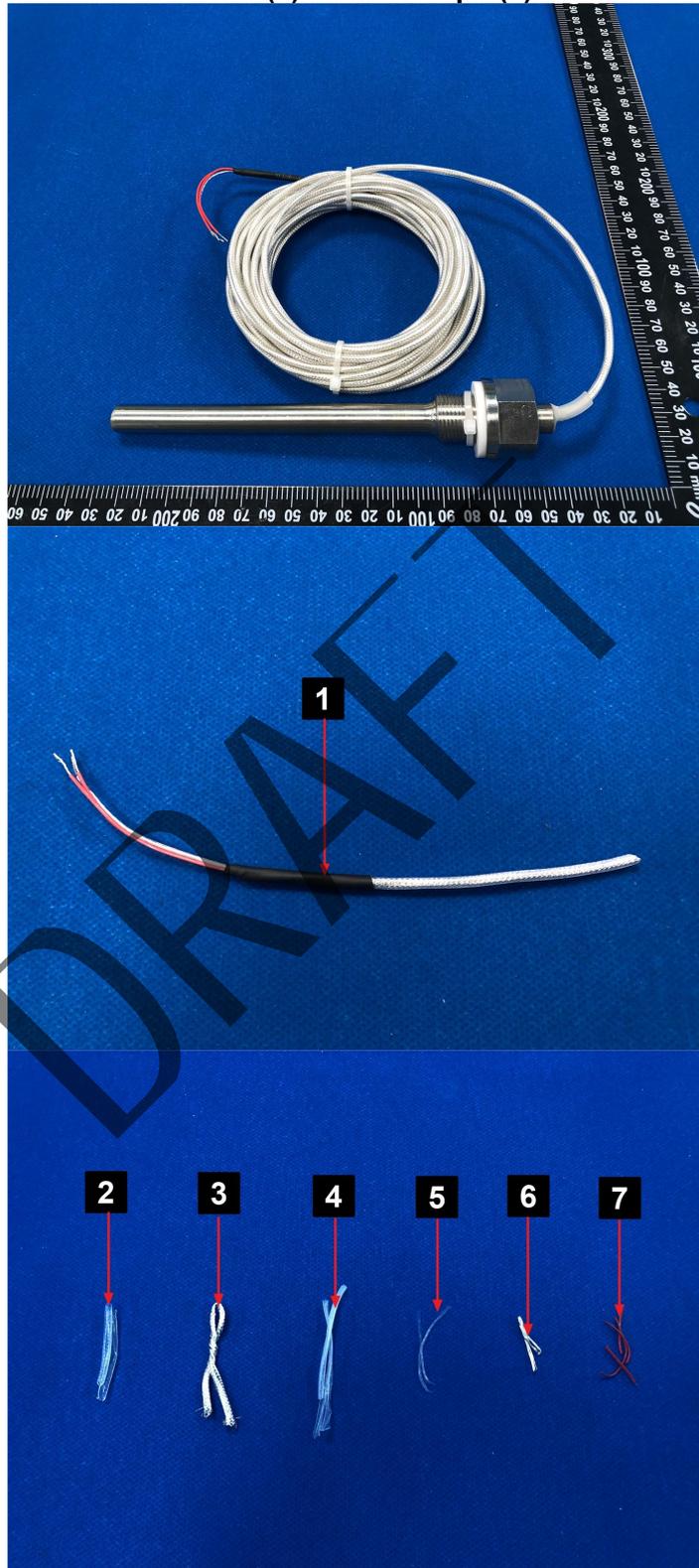
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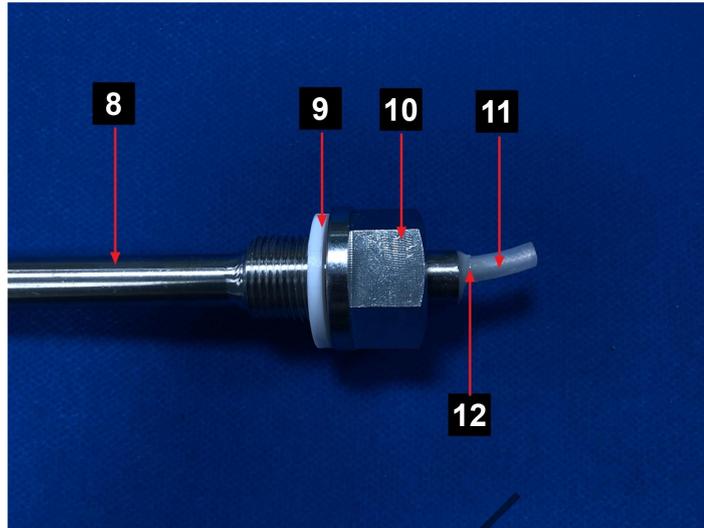
-/= Not available

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Photo(s) of the sample(s)





-- End of Report --

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